

Run on:	February 1, 2005, 13:06:53 ; Search time 120 Seconds	Sequence:	1 actctggatgggtctgttt.....tggcagcggagggtgggg 579	Scoring table:	BLOSUM62	Title:	US-10-659-782A-11	Perfect score:	1030	Xgapext	0.5	Ygapext	0.5	Fgapext	6.0	Dgapext	7.0	Searched:	2002273 seqs, 358723299 residues	Total number of hits satisfying chosen parameters:	4004546	Minimum DB seq length:	0	Maximum DB seq length:	2000000000	Post-processing:	Minimum Match 0%	Maximum Match 100%	Listing First 45 summaries
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Percent Similarity: 53.19% Conservative: 1
 Best Local Similarity: 52.48% Mismatches: 0
 Query Match: 31.65% Deletes: 66
 DB: 4 Gaps: 1

US-10-659-782A-11 (1-579) x AAB20101 (1-117)

Qy 112 ATGCCCTCCCAAGGACCTCTAGCTCCCTCCGGCATGGCTGGCTGGACTTG 171
 DB 1 MetProSerProGlyThrValCysSerLeuLeuGlyMetLeuTriPheAspLeu 20

Qy 172 GGCATGGAGGTCACGGCTTCCTGAGCCCTGAACACCGAGAGTCCAGGTGAGACCTCCC 231
 DB 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gin---- 37

Qy 232 CACAAAGGCCCATCTGGCTTCAAGCTTCACTTGTGACCTGGAG 291
 DB 37 ----- 37

Qy 292 CAGCAGGCCCATCTGGCTTCAAGCTTCACTTGTGACCTGGCTGAC 351
 DB 37 ----- 37

Qy 412 AGCAGAGAAGGAGTCGAGAACCCAGCAAGGCTCAAGCCGAGAGCTAGCAGCT 471
 DB 38 -----ArgLysGluSerIlysLysProProAlaLysLeuAlaLeuAlaGlyT 56

Qy 472 GGCTCCGCCGGAAAGATGGAGTCAAAGAGAACGGCGAGGATGAGTCGG 530
 DB 56 rPheLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluValArg 75

RESULT 6

1 ID AAB62649 standard; protein: 117 AA.

2 AAB62649;

3 XX

4 DR 23-JUL-2001 (first entry)

5 DE Human zsig33 polypeptide.

6 XX zsig33; signal transduction; hormone; enzyme; neural development; gastric contractility; nutrient uptake; digestive; pancreatic; human; insulin-like growth factor-I; growth hormone; bone; gastrointestinal; glucosidase; osteopathic; anorectic; vulnerary; immunomodulator; GHS-R; G-protein coupled receptor.

7 XX Homo sapiens.

8 XX WO200118355-A2.

9 XX Key Location/Qualifiers

10 FT 24 .37

11 FT /note= "specifically claimed fragment that binds to the GHS-R"

12 FT XX

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57 OS Homo sapiens.
 58 Key Location/Qualifiers
 59 FT 24 .37
 60 FT /note= "specifically claimed fragment that binds to the GHS-R"

61 XX WO200118355-A2.

62 XX 31-MAY-2001.

63 XX 22-NOV-2000; 2000WO-US032074.

64 XX 22-NOV-1999; 99US-0166765P.

65 XX (ZYMO) ZYMOGENETICS INC.

66 XX Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;

67 XX WPI; 2001-355879/37.

68 XX N-PSDB; AAF83678.

69 XX DR

70 XX DR

PT Forming reversible peptide receptor complex for purifying cell and peptides stimulating signal transduction and modulating hormone secretion, involves contacting a receptor with zsig33 polypeptide.

PT XX

PT PS

PT XX

Claim 1: Page 93-94; 111pp; English.

CC The invention relates to a method of forming a reversible peptide-CC receptor complex that involves providing an immobilized receptor, and-CC contacting the receptor with a zsig33 peptide (comprising residues 24-37-CC of AB62649), where the receptor binds to the zsig33 peptide. The method-CC is useful for purifying cells, purifying a peptide, stimulating signal-CC transduction in cell expressing a receptor. It is also useful for-CC modulating secretion of hormones, neural development and/or utilization,-CC gastric contractility, nutrient uptake, secretion of digestive and-CC pancreatic enzymes and hormones, secretion of insulin-like growth factor-CC -I, secretion of non-zsig33 proteins. It is useful for modulating growth-CC hormone secretion in a mammal having a disease associated with abnormal-CC levels of growth hormone, such as osteoporosis, bone repair, bone-CC remodeling, low osteoblast levels, cartilage repair and remodeling,-CC skeletal dysplasia, immune suppression, obesity, growth retardation,-CC protein catabolic responses after surgery, cachexia, protein loss,-CC dwarfism, wound healing and ovulation induction, treating a mammal having-CC a metabolic disorder requiring neurological feedback, such as satiety-CC regulation, glucose absorption and metabolism and neuropathy-associated-CC gastrointestinal disorders, and stimulating glucose-induced insulin-CC release in a mammal. The present sequence represents the human zsig33-CC polypeptide, a peptide ligand for the G-protein coupled receptor, GHS-R-CC

CC Sequence 117 AA;

CC Alignment Scores:
 CC Pred. No.: 4.93e-24
 CC Score: 326.00
 CC Percent Similarity: 53.19%
 CC Best Local Similarity: 52.48%
 CC Query Match: 31.65%
 CC DB: 4
 CC SQ Sequence 117 AA;

US-10-659-782A-11 (1-579) x AAB62649 (1-117)

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CC Qy 472 GGCTCCGCCGGAAAGATGGAGTCAAAGAGAACGGCGAGGATGAGTCGG 530
 CC Db 56 rPheLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluValArg 75

CC RESULT 6
 CC 1 ID AAB62649 standard; protein: 117 AA.
 CC 2 AAB62649;
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 CC 4 DR 23-JUL-2001 (first entry)
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 CC 6 XX zsig33; signal transduction; hormone; enzyme; neural development; gastric contractility; nutrient uptake; digestive; pancreatic; human; insulin-like growth factor-I; growth hormone; bone; gastrointestinal; glucosidase; osteopathic; anorectic; vulnerary; immunomodulator; GHS-R; G-protein coupled receptor.
 CC 7 XX Homo sapiens.
 CC 8 XX WO200118355-A2.
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The invention relates to zsig33-like peptides (2s33LP) including zsig33-linker, zsig33-beta, zsig33-gamma, zsig33-delta, and zsig33-epsilon peptides and nucleic acid molecules encoding such zsig33-like peptides. 2s33LP peptides activate the immune system in boosting immunity to infectious diseases, treating immunocompromised patients such as human immunodeficiency virus (HIV) patients, in improving vaccines and in treatment of bacterial, viral, protozoal and fungal infections. Peptides of the invention are used to identify and isolate receptors involved in growth regulation in the liver, blood vessel formation and other developmental processes. They are useful for evaluating functions of hypothalamus-pituitary-adrenal axis, to modulate growth and/or differentiation of tumour cells, as additives to anti-hypoglycaemic preparations containing glucose and as absorption enhancers for oral drugs which require fast nutrient action and to stimulate glucose-induced insulin release. They are also useful as research reagents for the expansion, differentiation, growth factor and hormone secretion and/or cell-cell interactions of tissues associated with gastrointestinal system, brain and central nervous system. These molecules are useful for treating dysfunctions associated with contractile tissues or to suppress or enhance contractility in vivo and to treat gastrointestinal and growth related diseases. 2s33LP peptides, nucleic acids and/or antibodies are useful for treating disorders associated with gastrointestinal contractility, secretion of digestive enzymes, hormone and acids, secretion of hormones in the pancreas and/or brain, gastrointestinal motility, recruitment of digestive enzymes, inflammation and regulation of nutrient absorption. Sequences of the invention are useful in gene therapy. The present sequence is human zsig33 protein

SQ Sequence 117 AA;

Alignment Scores:	4.93e-24	Length:	117
Pre. No.:	326.00	Matches:	74
Score:		Conservative:	1
Percent Similarity:	51.19%	Nimatches:	0
Best Local Similarity:	52.48%	Indels:	66
Query Match:	31.65%	Gaps:	5
DB:			

US-10-659-782A-11 (1-579) x AAE15883 (1-117)

Qy	11.2 ATGCCCTCCCCAGGGCCGCTCTGAGCTCTCTGGCTGGGCTGGACTTG 171	Db	1 MatProsserProlylThreonylCysteineLeuLeuGlymetLeuPheLeuAsPheLeu 20
Qy	172 GCGATGGGAGGCTCCAGCTTCTGAGCCCTGTAACACCAAGAGTCCAGGTGAGACCTCCC 231	Db	21 AlametAlaGlySerSerPheLeuSerProGluHisGlnArgValGln----- 37
Qy	23.2 CACAAAGCCCACATGTTCCAGCCGCACTTACAAACAGCTGTGACCTGGAG 291	Db	37 ----- 37
Qy	29.2 CACGAGGCCCATCTGGCTTCAGTCTTCAGACAGACAAAGGCTCTCGCTGAC 351	Db	37 ----- 37
Qy	35.2 CTCACTGTTCTGGAAGGACATGGGGCTTAGTCTAAAGACTGTTCCCCCTCC 411	Db	37 ----- 37
Qy	41.2 AGCAGAGAAAGGAGTCGAGAGGCCAGCTGAGCCCGAGCTCTAGCAGCT 471	Db	38 -----ArgLysGluSerIblylProProAlaIysLeu1nProAgaIalaLeuAlaGlyT 56
Qy	47.2 GGCTCGCCGGAGAGATGGCTCAAGGAGAACGGCGAGGATGAACTGGAAAGTCGG 530	Db	56 rpluewarpProGluAspGlyGlyGlnAlaGluGlyAlaGluLeuGluLeuGluValArg 75
Qy	58.2 ----- 58	Db	79 ----- 79
Qy	64.2 ----- 64	Db	85 ----- 85
Qy	70.2 ----- 70	Db	91 ----- 91
Qy	76.2 ----- 76	Db	97 ----- 97
Qy	82.2 ----- 82	Db	103 ----- 103
Qy	88.2 ----- 88	Db	110 ----- 110
Qy	94.2 ----- 94	Db	116 ----- 116
Qy	100.2 ----- 100	Db	122 ----- 122
Qy	106.2 ----- 106	Db	128 ----- 128
Qy	112.2 ----- 112	Db	134 ----- 134
Qy	118.2 ----- 118	Db	140 ----- 140
Qy	124.2 ----- 124	Db	146 ----- 146
Qy	130.2 ----- 130	Db	152 ----- 152
Qy	136.2 ----- 136	Db	158 ----- 158
Qy	142.2 ----- 142	Db	164 ----- 164
Qy	148.2 ----- 148	Db	170 ----- 170
Qy	154.2 ----- 154	Db	176 ----- 176
Qy	160.2 ----- 160	Db	182 ----- 182
Qy	166.2 ----- 166	Db	188 ----- 188
Qy	172.2 ----- 172	Db	194 ----- 194
Qy	178.2 ----- 178	Db	200 ----- 200
Qy	184.2 ----- 184	Db	206 ----- 206
Qy	190.2 ----- 190	Db	212 ----- 212
Qy	196.2 ----- 196	Db	218 ----- 218
Qy	202.2 ----- 202	Db	224 ----- 224
Qy	208.2 ----- 208	Db	230 ----- 230
Qy	214.2 ----- 214	Db	236 ----- 236
Qy	220.2 ----- 220	Db	242 ----- 242
Qy	226.2 ----- 226	Db	248 ----- 248
Qy	232.2 ----- 232	Db	254 ----- 254
Qy	238.2 ----- 238	Db	260 ----- 260
Qy	244.2 ----- 244	Db	266 ----- 266
Qy	250.2 ----- 250	Db	272 ----- 272
Qy	256.2 ----- 256	Db	278 ----- 278
Qy	262.2 ----- 262	Db	284 ----- 284
Qy	268.2 ----- 268	Db	290 ----- 290
Qy	274.2 ----- 274	Db	296 ----- 296
Qy	280.2 ----- 280	Db	302 ----- 302
Qy	286.2 ----- 286	Db	308 ----- 308
Qy	292.2 ----- 292	Db	314 ----- 314
Qy	298.2 ----- 298	Db	320 ----- 320
Qy	304.2 ----- 304	Db	326 ----- 326
Qy	310.2 ----- 310	Db	332 ----- 332
Qy	316.2 ----- 316	Db	338 ----- 338
Qy	322.2 ----- 322	Db	344 ----- 344
Qy	328.2 ----- 328	Db	350 ----- 350
Qy	334.2 ----- 334	Db	356 ----- 356
Qy	340.2 ----- 340	Db	362 ----- 362
Qy	346.2 ----- 346	Db	368 ----- 368
Qy	352.2 ----- 352	Db	374 ----- 374
Qy	358.2 ----- 358	Db	380 ----- 380
Qy	364.2 ----- 364	Db	386 ----- 386
Qy	370.2 ----- 370	Db	392 ----- 392
Qy	376.2 ----- 376	Db	398 ----- 398
Qy	382.2 ----- 382	Db	404 ----- 404
Qy	388.2 ----- 388	Db	410 ----- 410
Qy	394.2 ----- 394	Db	416 ----- 416
Qy	400.2 ----- 400	Db	422 ----- 422
Qy	406.2 ----- 406	Db	428 ----- 428
Qy	412.2 ----- 412	Db	434 ----- 434
Qy	418.2 ----- 418	Db	440 ----- 440
Qy	424.2 ----- 424	Db	446 ----- 446
Qy	430.2 ----- 430	Db	452 ----- 452
Qy	436.2 ----- 436	Db	458 ----- 458
Qy	442.2 ----- 442	Db	464 ----- 464
Qy	448.2 ----- 448	Db	470 ----- 470
Qy	454.2 ----- 454	Db	476 ----- 476
Qy	460.2 ----- 460	Db	482 ----- 482
Qy	466.2 ----- 466	Db	488 ----- 488
Qy	472.2 ----- 472	Db	494 ----- 494
Qy	478.2 ----- 478	Db	500 ----- 500
Qy	484.2 ----- 484	Db	506 ----- 506
Qy	490.2 ----- 490	Db	512 ----- 512
Qy	496.2 ----- 496	Db	518 ----- 518
Qy	502.2 ----- 502	Db	524 ----- 524
Qy	508.2 ----- 508	Db	530 ----- 530
Qy	514.2 ----- 514	Db	536 ----- 536
Qy	520.2 ----- 520	Db	542 ----- 542
Qy	526.2 ----- 526	Db	548 ----- 548
Qy	532.2 ----- 532	Db	554 ----- 554
Qy	538.2 ----- 538	Db	560 ----- 560
Qy	544.2 ----- 544	Db	566 ----- 566
Qy	550.2 ----- 550	Db	572 ----- 572
Qy	556.2 ----- 556	Db	578 ----- 578
Qy	562.2 ----- 562	Db	584 ----- 584
Qy	568.2 ----- 568	Db	590 ----- 590
Qy	574.2 ----- 574	Db	596 ----- 596
Qy	580.2 ----- 580	Db	602 ----- 602
Qy	586.2 ----- 586	Db	608 ----- 608
Qy	592.2 ----- 592	Db	614 ----- 614
Qy	598.2 ----- 598	Db	620 ----- 620
Qy	604.2 ----- 604	Db	626 ----- 626
Qy	610.2 ----- 610	Db	632 ----- 632
Qy	616.2 ----- 616	Db	638 ----- 638
Qy	622.2 ----- 622	Db	644 ----- 644
Qy	628.2 ----- 628	Db	650 ----- 650
Qy	634.2 ----- 634	Db	656 ----- 656
Qy	640.2 ----- 640	Db	662 ----- 662
Qy	646.2 ----- 646	Db	668 ----- 668
Qy	652.2 ----- 652	Db	674 ----- 674
Qy	658.2 ----- 658	Db	680 ----- 680
Qy	664.2 ----- 664	Db	686 ----- 686
Qy	670.2 ----- 670	Db	692 ----- 692
Qy	676.2 ----- 676	Db	698 ----- 698
Qy	682.2 ----- 682	Db	704 ----- 704
Qy	688.2 ----- 688	Db	710 ----- 710
Qy	694.2 ----- 694	Db	716 ----- 716
Qy	700.2 ----- 700	Db	722 ----- 722
Qy	706.2 ----- 706	Db	728 ----- 728
Qy	712.2 ----- 712	Db	734 ----- 734
Qy	718.2 ----- 718	Db	740 ----- 740
Qy	724.2 ----- 724	Db	746 ----- 746
Qy	730.2 ----- 730	Db	752 ----- 752
Qy	736.2 ----- 736	Db	758 ----- 758
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Qy	748.2 ----- 748	Db	770 ----- 770
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Qy	778.2 ----- 778	Db	800 ----- 800
Qy	784.2 ----- 784	Db	806 ----- 806
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Qy	814.2 ----- 814	Db	836 ----- 836
Qy	820.2 ----- 820	Db	842 ----- 842
Qy	826.2 ----- 826	Db	848 ----- 848
Qy	832.2 ----- 832	Db	854 ----- 854
Qy	838.2 ----- 838	Db	860 ----- 860
Qy	844.2 ----- 844	Db	866 ----- 866
Qy	850.2 ----- 850	Db	872 ----- 872
Qy	856.2 ----- 856	Db	878 ----- 878
Qy	862.2 ----- 862	Db	884 ----- 884
Qy	868.2 ----- 868	Db	890 ----- 890
Qy	874.2 ----- 874	Db	896 ----- 896
Qy	880.2 ----- 880	Db	902 ----- 902
Qy	886.2 ----- 886	Db	908 ----- 908
Qy	892.2 ----- 892	Db	914 ----- 914
Qy	898.2 ----- 898	Db	920 ----- 920
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Qy	910.2 ----- 910	Db	932 ----- 932
Qy	916.2 ----- 916	Db	938 ----- 938
Qy	922.2 ----- 922	Db	944 ----- 944
Qy	928.2 ----- 928	Db	950 ----- 950
Qy	934.2 ----- 934	Db	956 ----- 956
Qy	940.2 ----- 940	Db	962 ----- 962
Qy	946.2 ----- 946	Db	968 ----- 968
Qy	952.2 ----- 952	Db	974 ----- 974
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Qy	964.2 ----- 964	Db	986 ----- 986
Qy	970.2 ----- 970	Db	992 ----- 992
Qy	976.2 ----- 976	Db	998 ----- 998
Qy	982.2 ----- 982	Db	1004 ----- 1004
Qy	988.2 ----- 988	Db	1010 ----- 1010
Qy	994.2 ----- 994	Db	1016 ----- 1016
Qy	1000.2 ----- 1000	Db	1022 ----- 1022
Qy	1006.2 ----- 1006	Db	1028 ----- 1028
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Qy	1024.2 ----- 1024	Db	1046 ----- 1046
Qy	1030.2 ----- 1030	Db	1052 ----- 1052
Qy	1036.2 ----- 1036	Db	1058 ----- 1058
Qy	1042.2 ----- 1042	Db	1064 ----- 1064
Qy	1048.2 ----- 1048	Db	1070 ----- 1070
Qy	1054.2 ----- 1054	Db	1076 ----- 1076
Qy	1060.2 ----- 1060	Db	1082 ----- 1082
Qy	1066.2 ----- 1066	Db	1088 ----- 1088
Qy	1072.2 ----- 1072	Db	1094 ----- 1094
Qy	1078.2 ----- 1078	Db	1100 ----- 1100
Qy	1084.2 ----- 1084	Db	1106 ----- 1106
Qy	1090.2 ----- 1090	Db	1112 ----- 1112
Qy	1096.2 ----- 1096	Db	1118 ----- 1118
Qy	1102.2 ----- 1102	Db	1124 ----- 1124
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Qy	1126.2 ----- 1126	Db	1148 ----- 1148
Qy	1132.2 ----- 1132	Db	1154 ----- 1154
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Qy	1150.2 ----- 1150	Db	1172 ----- 1172
Qy	1156.2 ----- 1156	Db	1178 ----- 1178
Qy	1162.2 ----- 1162	Db	1184 ----- 1184
Qy	1168.2 ----- 1168	Db	1190 ----- 1190
Qy	1174.2 ----- 1174	Db	1196 ----- 1196
Qy	1180.2 ----- 1180	Db	1202 ----- 1202
Qy	1186.2 ----- 1186	Db	1208 ----- 1208
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Qy	1210.2 ----- 1210	Db	1232 ----- 1232
Qy	1216.2 ----- 1216	Db	1238 ----- 1238
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Qy	1240.2 ----- 1240	Db	1262 ----- 1262
Qy	1246.2 ----- 1246	Db	1268 ----- 1268
Qy	1252.2 ----- 1252	Db	1274 ----- 1274
Qy	1258.2 ----- 1258	Db	1280 ----- 1280
Qy	1264.2 ----- 1264	Db	1286 ----- 1286
Qy	1270.2 ----- 1270	Db	1292 ----- 1292
Qy	1276.2 ----- 1276	Db	1298 ----- 1298
Qy	1282.2 ----- 1282	Db	1304 ----- 1304
Qy	1288.2 ----- 1288	Db	1310 ----- 1310
Qy	1294.2 ----- 1294	Db	1316 ----- 1316
Qy	1300.2 ----- 1300	Db	1322 ----- 1322
Qy	1306.2 ----- 1306	Db	1328 ----- 1328
Qy	1312.2 ----- 1312	Db	1334 ----- 1334
Qy	1318.2 ----- 1318	Db	1340 ----- 1340

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PR	PR	24-JUN-1998	98US-0090431P.
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PR	PR	25-JUN-1998	98US-0090694P.
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PR	PR	26-JUN-1998	98US-0090697P.
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PR	PR	26-JUN-1998	98US-0090699P.
PR	PR	01-JUL-1998	98US-0091360P.
PR	PR	01-JUL-1998	98US-0091544P.
PR	PR	02-JUL-1998	98US-0091478P.
PR	PR	02-JUL-1998	98US-0091519P.
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PR	PR	10-JUL-1998	98US-0092472P.
PR	PR	20-JUL-1998	98US-0093339P.
PR	PR	30-JUL-1998	98US-0094651P.
PR	PR	04-AUG-1998	98US-0095282P.
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PR	PR	10-AUG-1998	98US-0095916P.
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PR	PR	10-AUG-1998	98US-0096012P.
PR	PR	11-AUG-1998	98US-0096143P.
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PR	PR	12-AUG-1998	98US-0096324P.
PR	PR	17-AUG-1998	98US-0096725P.
PR	PR	17-AUG-1998	98US-0096754P.
PR	PR	17-AUG-1998	98US-0096765P.
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PR	PR	18-AUG-1998	98US-0096794P.
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PR	PR	20-AUG-1998	98US-0097141P.
PR	PR	24-AUG-1998	98US-0097218P.
PR	PR	26-AUG-1998	98US-0097652P.
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PR	PR	26-AUG-1998	98US-0097971P.
PR	PR	26-AUG-1998	98US-0097974P.
PR	PR	26-AUG-1998	98US-0097978P.
PR	PR	26-AUG-1998	98US-0097979P.

Db 37 - 37

Qy	292	CAGCAGGCCATCTCTGGCTTCAGTCCTCTCCAGAGACAAGGACTCTGGCTCTGAC	351	PR	09-JUN-1998;	98US-0088655P.
Db	37	-----	-----	PR	10-JUN-1998;	98US-0088734P.
Db	37	-----	-----	PR	10-JUN-1998;	98US-0088738P.
Qy	352	CTCACTGTTCTGGAAAGACATGGGCTTAGAGTCCTAACAGACTGTTCCCTTCC	411	PR	10-JUN-1998;	98US-0088742P.
Db	37	-----	-----	PR	10-JUN-1998;	98US-0088810P.
Qy	412	ACAGAGAAAGGTGAGAGCCACAGCCAAAGCTGAGCCCAAGCTCTAGAGCT	471	PR	11-JUN-1998;	98US-0088824P.
Db	38	-----	-----	PR	11-JUN-1998;	98US-0088826P.
Qy	472	GGCTCCGCCGGAGATGAGCTCAACAGAGGGCAAGGATGAACTGGAAGTCGG	530	PR	11-JUN-1998;	98US-0088858P.
Db	56	rpIewar9pRoIu9pGlyGlyIaGluaspGluIeuIvalArg 75	75	PR	11-JUN-1998;	98US-0088861P.
RESULT 13						
ABU59124	ABU59124	standard; protein; 117 AA.		PR	11-JUN-1998;	98US-0088876P.
XX	AC	ABU59124;		PR	12-JUN-1998;	98US-0088905P.
XX	DT	28-APR-2003 (first entry)		PR	16-SEP-1998;	98WO-US019330.
XX	DE	Novel human secreted or transmembrane protein PRO1066.		PR	17-SEP-1998;	98WO-US019437.
XX	DE	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinal disorder; pigmentosis; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.		PR	07-OCT-1998;	98WO-US021141.
XX	DE	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinal disorder; pigmentosis; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.		PR	01-DEC-1998;	98WO-US025108.
XX	DE	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinal disorder; pigmentosis; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.		PR	05-JUN-1999;	99WO-US000106.
XX	DE	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinal disorder; pigmentosis; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.		PR	08-MAR-1999;	99WO-US005028.
XX	DE	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinal disorder; pigmentosis; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.		PR	02-JUN-1999;	99WO-US012252.
XX	DE	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinal disorder; pigmentosis; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.		PR	15-SEP-1999;	99WO-US021090.
XX	DE	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinal disorder; pigmentosis; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.		PR	15-SEP-1999;	99WO-US021547.
XX	DE	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinal disorder; pigmentosis; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.		PR	30-NOV-1999;	99WO-US023313.
XX	DE	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinal disorder; pigmentosis; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.		PR	01-DEC-1999;	99WO-US024301.
XX	DE	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinal disorder; pigmentosis; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.		PR	01-DEC-1999;	99WO-US024634.
XX	DE	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinal disorder; pigmentosis; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.		PR	16-DEC-1999;	99WO-US030095.
XX	DE	Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinal disorder; pigmentosis; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.		PR	20-DEC-1999;	99WO-US030911.
OS	OS	Homo sapiens.		PR	06-JUN-2000;	2000WO-US000219.
XX	PN	US2002132252-A1.		PR	06-JUN-2000;	2000WO-US000376.
XX	PD	19-SEP-2002.		PR	11-FEB-2000;	2000WO-US004356.
XX	PD	19-NOV-2001; 2001US-00990442.		PR	18-FEB-2000;	2000WO-US004341.
XX	PR	PR	22-FEB-2000;	2000WO-US004414.		
XX	PR	PR	24-FEB-2000;	2000WO-US004914.		
XX	PR	PR	02-MAR-2000;	2000WO-US005004.		
XX	PR	PR	02-MAR-2000;	2000WO-US005841.		
XX	PR	PR	10-MAR-2000;	2000WO-US006319.		
XX	PR	PR	15-MAR-2000;	2000WO-US006884.		
PR	16-JUN-1997;	97US-0049767P.	PR	20-MAR-2000;	2000WO-US007377.	
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PR	25-FEB-1998;	98US-0075945P.	PR	02-JUN-2000;	2000WO-US015264.	
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PR	28-APR-1998;	98US-008332P.	PR	11-AUG-2000;	2000WO-US020031.	
PR	07-MAY-1998;	98US-0084600P.	PR	23-AUG-2000;	2000WO-US019692.	
PR	28-MAY-1998;	98US-0087106P.	PR	24-AUG-2000;	2000WO-US02328.	
PR	02-JUN-1998;	98US-008760P.	PR	08-NOV-2000;	2000WO-US03052.	
PR	02-JUN-1998;	98US-008760P.	PR	01-DEC-2000;	2000WO-US03678.	
PR	03-JUN-1998;	98US-0087759P.	PR	28-FEB-2001;	2001WO-US006520.	
PR	04-JUN-1998;	98US-008782P.	PR	01-JUN-2001;	2001WO-US017800.	
PR	04-JUN-1998;	98US-0088021P.	PR	20-JUN-2001;	2001WO-US019692.	
PR	04-JUN-1998;	98US-0088025P.	PA	XX	(GETH) GENENTECH INC.	
PR	04-JUN-1998;	98US-008836P.	PA	XX	Ashkenazi AJ, Baker KP, Bottstein D, Desnoyers L, Baton DL, Godowski PJ; Ferrara N, Fong S, Gerber H, Gerritsen ME, Godard A, Grimaldi JC, Gurney AL, Klavijn LJ, Napier MA, Pan J, Paoni NF; Roy MA, Stewart TA, Tomasz D, Watanabe CK, Williams PM, Wood WI;	

PI	Zhang Z;	Qy	412 AGCAGAGAAAGGAGTCAGAAAGCACCAGCCAGCTGAGCCCCAGGCTAGGAGCT 471	
XX	WPI; 2003-247083/24.	Db	38 -----ArglyGluSerLysProProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56	
DR	N-PSDB; ABX80294.	Qy	472 GGCTCGCCGGAGATGGAGGTCAGCAGAAAGGGCAGAGGATGAACTGGACTGGCC 530	
XX		Db	56 rPLeuArgProGluAspGlyGlnAlaGluGlyAlaGluAlaGluLeuGluValArg 75	
PT	Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346 and PRO1375, which stimulate proliferation of stimulated T-lymphocytes are therapeutically useful for enhancing immune response and in cancer treatments.			
PR				
PR				
PS	Claim 12; Fig 186; 648pp; English.			
XX				
CC	The invention describes an isolated human PRO polypeptides. The PRO polypeptides are useful in detecting PRO polypeptides in a sample, in linking bioactive molecule to a cell expressing a PRO polypeptide, and in modulating at least one biological activity of a cell expressing a PRO polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186 stimulate adrenal cortical capillary endothelial growth, and PRO136, PRO943, PRO28, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126, PRO1360 and PRO1387 induces c-fos in endothelial cells, and are thus useful for treating conditions or disorders where angiogenesis would be beneficial, e.g. wound healing and antagonist of this polypeptide are useful for treating cancerous tumours. PRO812 inhibits vascular endothelial growth factor (VEGF) stimulated proliferation of endothelial cells and is thus useful for inhibiting endothelial cell growth in mammals which would be beneficial in inhibiting tumour growth. PRO826, PRO1068, PRO1181, PRO1346 and PRO375 stimulate proliferation of stimulated T-lymphocytes and are therapeutically useful for enhancing immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of retinal neurons cells (PRO1132 is also enhances survival/proliferation of rod photoreceptor cells) and therefore are useful for treating retinal disorders of injuries, e.g. retinitis pigmentosum, AMD, PRO813, PRO1066 induce proliferation of mammalian kidney mesangial cells, and therefore are useful for treating kidney disorders associated with decreased mesangial cell function such as Berger disease or other nephropathies associated with dermatitis, herpetic ulcers or Crohn's disease. PRO1110, PRO844, PRO1312, PRO1192 and PRO1387 induce the proliferation and/or redifferentiation of chondrocytes in culture and are thus useful for treating sports injuries, and arthritis. This is the amino acid sequence of a novel human PRO protein.			
XX	Sequence 117 AA;			
SQ	Alignment Scores:			
	Prep. No.:	4.93e-24	Length:	117
	Score:	326.00	Matches:	74
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	Query Match:	31.65%	Indels:	66
	DB:	6	Gaps:	1
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Qy	172 GGCATGGCAGCTCCAGCTCTGAGCTGAAACCAAGAGTCAGTGAGACCTTC 231			
Db	21 AlaMetAlaGlySerSerLeuUserProGluHisGlnArgValGln-Gln---- 37			
Qy	2312 CACAAAGCCCCACATGTTCCAGCCCTGCCACTTACGAAACCACTGTGACCTGGAG 291			
Db	37 ----- 37			
Qy	112 ATGCCCTCCAGGAGCCGCTGAGGCCCTCTGCTCTGGCTGGACTGGCTG 171			
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Qy	172 GGCATGGCAGCTCCAGCTCTGAGCTGAAACCAAGAGTCAGTGAGACCTTC 231			
Db	21 AlaMetAlaGlySerSerLeuUserProGluHisGlnArgValGln-Gln---- 37			
Qy	2312 CACAAAGCCCCACATGTTCCAGCCCTGCCACTTACGAAACCACTGTGACCTGGAG 291			
Db	37 ----- 37			
Qy	112 ATGCCCTCCAGGAGCCGCTGAGGCCCTCTGCTCTGGCTGGACTGGCTG 171			
Db	1 NetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuPheLeuAspLeu 20			
Qy	172 GGCATGGCAGCTCCAGCTCTGAGCTGAAACCAAGAGTCAGTGAGACCTTC 231			
Db	21 AlaMetAlaGlySerSerLeuUserProGluHisGlnArgValGln-Gln---- 37			
Qy	2312 CTCACTGTTCTGGAGGACATGGGGCTTAGAGTCCTAACGACTGTTCCTTC 411			
Db	37 ----- 37			

PR	16-JUN-1998;	98US-0089512P.	PR	17-AUG-1998;	98US-0096895P.
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PR	17-JUN-1998;	98US-0089512P.	PR	18-AUG-1998;	98US-009649P.
PR	17-JUN-1998;	98US-0089538P.	PR	18-AUG-1998;	98US-009650P.
PR	17-JUN-1998;	98US-0089538P.	PR	18-AUG-1998;	98US-009659P.
PR	17-JUN-1998;	98US-0089559P.	PR	18-AUG-1998;	98US-009660P.
PR	17-JUN-1998;	98US-0089600P.	PR	18-AUG-1998;	98US-0097022P.
PR	17-JUN-1998;	98US-0089633P.	PR	19-AUG-1998;	98US-0097141P.
PR	18-JUN-1998;	98US-0089801P.	PR	20-AUG-1998;	98US-009718P.
PR	18-JUN-1998;	98US-0089900P.	PR	24-AUG-1998;	98US-0097661P.
PR	18-JUN-1998;	98US-0089908P.	PR	26-AUG-1998;	98US-0097952P.
PR	19-JUN-1998;	98US-0089947P.	PR	26-AUG-1998;	98US-0097954P.
PR	19-JUN-1998;	98US-0089948P.	PR	26-AUG-1998;	98US-0097955P.
PR	19-JUN-1998;	98US-0090349P.	PR	26-AUG-1998;	98US-0098014P.
PR	22-JUN-1998;	98US-0090422P.	PR	31-AUG-1998;	98US-009825P.
PR	22-JUN-1998;	98US-0090246P.	PR	16-SEP-1998;	98US-0097911P.
PR	22-JUN-1998;	98US-0090254P.	PR	26-AUG-1998;	98US-009774P.
PR	22-JUN-1998;	98US-0090254P.	PR	26-AUG-1998;	98US-009778P.
PR	23-JUN-1998;	98US-0090349P.	PR	26-AUG-1998;	98US-009779P.
PR	23-JUN-1998;	98US-0090349P.	PR	26-AUG-1998;	98US-009786P.
PR	24-JUN-1998;	98US-0090412P.	PR	26-AUG-1998;	98US-0097914P.
PR	24-JUN-1998;	98US-0090412P.	PR	31-AUG-1998;	98US-009825P.
PR	24-JUN-1998;	98US-0090415P.	PR	16-SEP-1998;	98US-010034P.
PR	24-JUN-1998;	98US-0090444P.	PR	16-SEP-1998;	98WO-US019330.
PR	24-JUN-1998;	98US-0090445P.	PR	26-AUG-1998;	98US-010058P.
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PR	25-JUN-1998;	98US-0090678P.	PR	07-OCT-1998;	98WO-US021141.
PR	25-JUN-1998;	98US-0090635P.	PR	01-DEC-1998;	98WO-US025108.
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PR	24-JUN-1998;	98US-0090542P.	PR	05-JAN-1999;	99WO-US00106.
PR	24-JUN-1998;	98US-0090557P.	PR	08-MAR-1999;	99WO-US00928.
PR	25-JUN-1998;	98US-0090676P.	PR	12-MAR-1999;	99US-0123957P.
PR	25-JUN-1998;	98US-0090678P.	PR	02-JUN-1999;	99WO-US012252.
PR	01-JUL-1998;	98US-0091303P.	PR	23-JUN-1999;	99US-0143037P.
PR	01-JUL-1998;	98US-0091304P.	PR	07-JUL-1999;	99US-0143448P.
PR	02-JUL-1998;	98US-0091544P.	PR	15-SEP-1999;	99WO-US021547.
PR	02-JUL-1998;	98US-0091673P.	PR	08-OCT-1999;	99US-014758P.
PR	07-JUL-1998;	98US-0091519P.	PR	26-JUL-1999;	99US-014598P.
PR	07-JUL-1998;	98US-0091676P.	PR	28-JUL-1999;	99US-014622P.
PR	09-JUL-1998;	98US-0091683P.	PR	17-AUG-1999;	99US-014936P.
PR	10-JUL-1998;	98US-0091648P.	PR	15-SEP-1999;	99WO-US01090.
PR	02-JUL-1998;	98US-0091646P.	PR	16-DEC-1999;	99WO-US02091.
PR	02-JUL-1998;	98US-0091673P.	PR	20-DEC-1999;	99WO-US030911.
PR	07-JUL-1998;	98US-0091519P.	PR	05-JAN-2000;	2000WO-US00219.
PR	07-JUL-1998;	98US-0091676P.	PR	06-JUL-2000;	2000WO-US00376.
PR	09-JUL-1998;	98US-009218P.	PR	11-FEB-2000;	2000WO-US00565.
PR	10-JUL-1998;	98US-0092472P.	PR	18-FEB-2000;	2000WO-US004341.
PR	20-JUL-1998;	98US-0093339P.	PR	22-FEB-2000;	2000WO-US004414.
PR	30-JUL-1998;	98US-0091673P.	PR	24-FEB-2000;	2000WO-US004914.
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PR	04-AUG-1998;	98US-0095245P.	PR	02-MAR-2000;	2000WO-US013705.
PR	10-AUG-1998;	98US-0095301P.	PR	10-MAR-2000;	2000WO-US014042.
PR	10-AUG-1998;	98US-0095302P.	PR	15-MAR-2000;	2000WO-US014941.
PR	11-AUG-1998;	98US-0096143P.	PR	02-JUN-2000;	2000WO-US015264.
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PR	12-AUG-1998;	98US-0096329P.	PR	28-JUL-2000;	2000WO-US02031.
PR	17-AUG-1998;	98US-0096757P.	PR	11-AUG-2000;	2000WO-US022031.
PR	17-AUG-1998;	98US-0096766P.	Alignment Scores:		
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PR 05-JUN-2001; 2001US-00874503.
 PR 14-JUN-2001; 2001US-00882636.
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 XX (GBTB) GENENTECH INC.
 XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
 Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 Smith V, Stewart TA, Tumans D, Watanabe CK, Wood WI, Zhang Z;
 DR WPI; 2003-341980/32.
 DR N-PSDB; ACD24073.
 XX
 PT New secreted and transmembrane PRO nucleic acids, for treating
 PT inflammation, organ failure, atherosclerosis, cardiac injury,
 PT infertility, birth defects, premature aging, acquired immunodeficiency
 PT syndrome (AIDS), or cancer
 XX PS
 XX
 XX
 CC The invention describes an isolated nucleic acid (I) comprising, or which
 CC has 80 % sequence identity to, or the full-length coding sequence of, one
 CC of 275 nucleotide sequences, and which encodes a corresponding
 CC polypeptide selected from 275 amino acid sequences, where all sequences
 CC are given in the specification. The polypeptide encoded by (I) is used to
 CC detect PRO polypeptides link a bioactive molecule to a cell expressing a
 CC PRO polypeptide, modulate a biological activity of a cell, stimulate the
 CC release of tumour necrosis factor (TNF) -alpha from human blood, modulate
 CC the uptake of glucose or free fatty acid by cells, stimulate or inhibit
 CC the proliferation or differentiation of cells or gene expression,
 CC stimulate the release of proteoglycans, stimulate the release of cytokine
 CC from peripheral blood mononuclear cells, inhibit the binding of A-peptide
 CC to factor VIIA, or detect the presence of tumour in a mammal. The nucleic
 CC acid and polypeptide encoded by it, are useful for treating inflammatory
 CC diseases, organ failure, atherosclerosis, cardiac injury, infertility,
 CC birth defects, premature aging, acquired immunodeficiency syndrome
 CC (AIDS), cancer, or diabetic complications. The nucleic acid is useful as
 CC hybridisation probes, in chromosome and gene mapping, and in generating
 CC antisense RNA or DNA. The polypeptides are useful as pharmaceuticals,
 CC diagnostics, biosensors or bioreactors. Both are useful in tissue typing.
 CC This is the amino acid sequence of a novel human secreted and
 CC transmembrane PRO polypeptide
 XX SQ Sequence 117 AA;
 Alignment Scores:
 Pred. No.: 4.93e-24 Length: 117
 Score: 328.00 Matches: 74
 Percent Similarity: 53.19% Conservative: 1
 Best Local Similarity: 52.48% Mismatches: 0
 Query Match: 31.65% Indels: 66
 DB: 6 Gaps: 1
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 Db 1 MetProSerProGlyThrValCysSerLeuLeuGlyMetLeuTripleAspLeu 20
 Qy 172 GCAATGGAGGCTCCAGTTCTGCGCTGACACCGAGGTCCAGTGGACTCC 231
 Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln-Gln----- 37

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